

[METHOD OF GOLD SEPARATION AND GOLD SEPARATION DEVICE]

Abstract

A method of collecting gold by flowing water over a gold collecting medium located in a sluice to induce a positive surface charge on the gold collecting medium. Feeding gold laden material into the sluice with the flowing water to induce a negative surface charge on gold particles of the gold laden material and create a slurry. Setting the flow rate of the slurry into the sluice such that the gold particles are attracted to the gold collecting medium. Finally, collecting the gold particles attracted to the gold collecting medium from the gold collecting medium. A gold separation device having a sluice having an input end and an output end; a water input directed into the input end of the sluice; and a gold collecting medium in the sluice. The gold collecting medium being of a material which incurs a positive surface charge when immersed in water.